

Flood Control Project Maintenance
2009 Structure Summary Report
Overall Unit and Item Ratings

Reclamation District No. 2063 Crows Landing

Reclamation District No. 2063 Pumping Plant (Nelson Drain)

Overall Unit Rating	Rated Item	Item Rating
M	Operating Log	U
	Operation & Maintenance Manual	U
	Plant Building	M
	Communications	A
	Safety	M
	Pumps	M
	Power	A
	Pump Control Systems	M
	Sumps/Wet Well	A
	Trash Racks	A
	Sluice / Slide Gates	A
	Manual Gate Operators	A
	Other Metallic Items	A
	Flap Gates	U
	Security Fencing	A
	Intake and Discharge Pipes	M
	Pressurized Pipe	A

Flood Control Project Maintenance**Unit Cover Sheet****2009 Pumping Plant Inspection Results****Reclamation District No. 2063 Crows Landing**

Pumping Plant
Reclamation District No. 2063 Pumping Plant (Nelson Drain)

Pumping Plant Rating	M
Date of Inspection	7/28/2009
DWR Inspector	David Pesavento
Accompanied By	Joe Sallaberry RD 2063

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Reclamation District No. 2063 Crows Landing

Pumping Plant						Structure Length	Inspection Start/End	Inspector
Reclamation District No. 2063 Pumping Plant (Nelson Drain)							08/20/2009 08/20/2009	David Pesavento

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1	0.00	0.00	Pump Stations	Operating Log		U	Inspector Comments: No copy was available at the plant or during the inspection. A copy should be kept at the station at all times.	°	°		1
2	0.00	0.00	Pump Stations	Operation & Maintenance Manual		U	Inspector Comments: No copy was available at the plant or during the inspection. A copy should be kept at the station at all times.	°	°		2
3	0.00	0.00	Pump Stations	Plant Building		M	Inspector Comments: The plant appears to be structurally sound, but some vegetation has become overgrown and should be removed.	°	°	Y	3
4	0.00	0.00	Pump Stations	Communications		A	Inspector Comments: District personnel carry cell phones.	°	°		4
5	0.00	0.00	Pump Stations	Safety		M	Inspector Comments: Part of the power supply has become loose. The wires supplying power to the station could be stressed and separate. TID should come out to fix the electrical supply.	°	°	Y	5
6	0.00	0.00	Pump Stations	Cranes		N	Inspector Comments: There is no crane at this plant.	°	°		6
7	0.00	0.00	Pump Stations	Pumps		M	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: Several of the pumps have low oil levels. One pump does not have any oil. Oil needs to be added to the pumps and general maintenance needs to be done prior to the next flood season. The pumps were not turned on during this inspection.	°	°	Y	7
8	0.00	0.00	Pump Stations	Power		A	Item inspected visually only. Item was not operated during the inspection. Inspector Comments: The power supply is generally reliable. TID should do maintenance on the power riser above the plant building as noted above.	°	°		8
9	0.00	0.00	Pump Stations	Motors, Engines, Fans & Gear Reducers		N	Inspector Comments: There are no motors, electrical or mechanical equipment on this plant other than the pumps.	°	°		9
10	0.00	0.00	Pump Stations	Pump Control Systems		M	Inspector Comments: General maintenance should be done on the circuit breakers to make sure they are clean and functional. Wasps have built nests in several of the electrical boxes that need to be cleaned out.	°	°	Y	10

*** Location**

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WS : Water Side
CR : Crown

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Reclamation District No. 2063 Crows Landing

Pumping Plant	Structure Length	Inspection Start/End	Inspector
Reclamation District No. 2063 Pumping Plant (Nelson Drain)		08/20/2009 08/20/2009	David Pesavento

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
11	0.00	0.00	Pump Stations	Sumps/Wet Well		A	Inspector Comments: The pumps will function and the sumps are generally free of debris, but vegetation is starting to accumulate and will need to be cleared in the near future.	°	°	Y	11
12	0.00	0.00	Pump Stations	Trash Racks		A	Inspector Comments: The trash racks appear to be adequately maintained and free of debris.	°	°	Y	12
13	0.00	0.00	Pump Stations	Trash Rakes		N	Inspector Comments: The trash racks are manually cleared.	°	°		13
14	0.00	0.00	Pump Stations	Sluice / Slide Gates		A	Inspector Comments: The gate on the low flow pipe was not visible due to insect activity in the riser, but the district stated that the gate is stainless steel and will not corrode for many years. The gate moved easily.	°	°		14
15	0.00	0.00	Pump Stations	Electric Gate Operators		N	Inspector Comments: The slide gate is only manually operated.	°	°		15
16	0.00	0.00	Pump Stations	Manual Gate Operators		A	Inspector Comments: The operator turned easily and appeared to be well maintained.	°	°	Y	16
17	0.00	0.00	Pump Stations	Other Metallic Items		A	Inspector Comments: There is some rust on the metal support structure that does not appear to threaten the structural integrity of the plant.	°	°		17
18	0.00	0.00	Pump Stations	Flap Gates		U	Inspector Comments: There are no flap gates on this structure. The low flow channel is manually closed and the pressure pipes have vents preventing them from carrying a flow toward when the pumps are not working. Repair holes in the low flow pipe & add a flap gate.	°	°	Y	18
19	0.00	0.00	Pump Stations	Closure Structures		N	Inspector Comments: There are no closure structures at this plant.	°	°		19
20	0.00	0.00	Pump Stations	Security Fencing		A	Inspector Comments: There is a low fence around the station, but it is not vandalized and does not appear to have an problem with unauthorized personnel accessing it.	°	°		20

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Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

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Pumping Plant	Structure Length	Inspection Start/End	Inspector
Reclamation District No. 2063 Pumping Plant (Nelson Drain)		08/20/2009 08/20/2009	David Pesavento

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
21	0.00	0.00	Pump Stations	Intake and Discharge Pipes		M	Inspector Comments: Most pipes appear to be in adequate condition. One of the risers above a vent on one pipe has been broken off and may allow water to flow out and erode the slope. A riser should be placed on the pipe at this location prior to the flood season.	° °		° °	Y 21
22	0.00	0.00	Pump Stations	Pressurized Pipe		A	Inspector Comments: With the exception of the missing riser noted above, the pipes appear to be in adequate condition. The pipes are scheduled for a fresh coat of paint soon.	° °		° °	22

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Levee Inspections**

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Reclamation District No. 2063 Pumping Plant (Nelson Drain)		08/20/2009 08/20/2009	David Pesavento

Levee Mile Report Line	3
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Plant Building

View of the pump plant from the crown of the levee.

dpesaven_20090820_77.jpg



Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Safety

View of the power riser above the plant building.

dpesaven_20090820_78.jpg



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pumps

View of one of the pumps.

dpesaven_20090820_79.jpg



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Levee Inspection Report By Mile - Structure 2009

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Pumping Plant	Structure Length	Inspection Start/End	Inspector
Reclamation District No. 2063 Pumping Plant (Nelson Drain)		08/20/2009 08/20/2009	David Pesavento

Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pumps
View of another pump. This pump's oil well was completely dry.	
dpesaven_20090820_80.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pumps
View of another pump.	
dpesaven_20090820_81.jpg	



Levee Mile Report Line	7
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pumps
View of another pump.	
dpesaven_20090820_82.jpg	

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Levee Mile Report Line	10
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pump Control Systems

View of one of the circuit breakers.

dpesaven_20090820_83.jpg



Levee Mile Report Line	10
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pump Control Systems

View of several of the circuit breaker boxes and meter.

dpesaven_20090820_84.jpg



Levee Mile Report Line	10
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pump Control Systems

View of the pump control boxes. These have been recently installed.

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Levee Mile Report Line	10
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Pump Control Systems

View of another control box.

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Levee Mile Report Line	11
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Sumps/Wet Well

View of one of the sumps.

dpesaven_20090820_87.jpg



Levee Mile Report Line	11
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Sumps/Wet Well

View of the other sump.

dpesaven_20090820_88.jpg



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Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Trash Racks

View of the trash rack.

dpesaven_20090820_89.jpg



Levee Mile Report Line	12
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Trash Racks

View of the trash rack immediately in front of the pump intakes.

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Levee Mile Report Line	16
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Manual Gate Operators

View of the gate operator for the low flow channel.

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Levee Mile Report Line	18
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Flap Gates
View of the vent risers on the discharge pipes.	
dpesaven_20090820_93.jpg	



Levee Mile Report Line	18
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Flap Gates
View of the discharge end of one of the pressure pipes.	
dpesaven_20090820_94.jpg	



Levee Mile Report Line	18
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Flap Gates
View of the other discharge ends of the pipes. Note the holes in the low flow pipe and the frame for a flap gate that is no longer there.	
dpesaven_20090820_95.jpg	

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Pumping Plant	Structure Length	Inspection Start/End	Inspector
Reclamation District No. 2063 Pumping Plant (Nelson Drain)		08/20/2009 08/20/2009	David Pesavento

Levee Mile Report Line	21
Start Levee Mile	0.00
End Levee Mile	0.00
Location	
Category	Pump Stations
Item	Intake and Discharge Pipes

View of the vent hole in the discharge pipe with a missing riser.

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